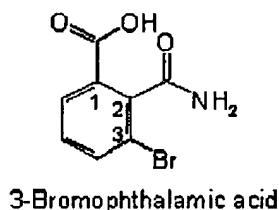
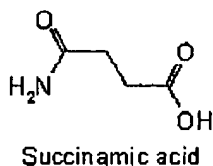


Carboxylic Acids and their Derivatives

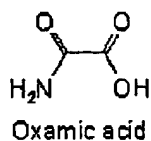
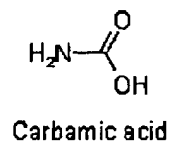
Amic acids Rule C-431

431.1 - When a dicarboxylic acid has a trivial name and when one of its carboxyl groups is replaced by a carboxamide group $-C(=O)-NH_2$, the resulting amic acid is named by replacing the suffix "-ic" of the trivial name of the dicarboxylic acid by the suffix "-amic".

Examples to Rule C-431.1

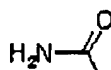


The following names are also recommended:

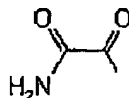


431.2 - Acyl radicals derived from the above amic acids are named by replacing the "-amic acid" ending by "-amoyl".

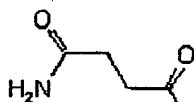
Examples to Rule C-431.2



Carbamoyl (from carbamic acid)



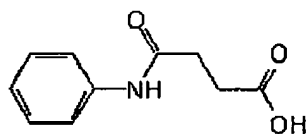
Oxamoyl (from oxamic acid)



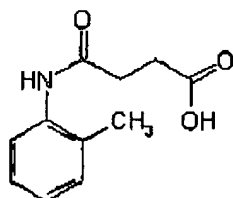
Succinamoyl (from succinamic acid)

431.3 - When the corresponding dicarboxylic acid has a trivial or semitrivial name, *N*-phenyl derivatives of-amic acids are named by changing the ending "-amic acid" to "-anilic acid".

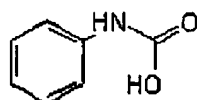
Examples to Rule C-431.3



Succinanilic acid



2'-Methylsuccinanilic acid

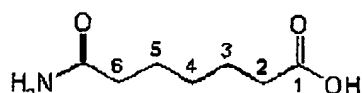


Carbanilic acid or Phenylcarbamic acid

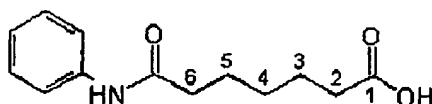
431.4 - Ionoamides of dicarboxylic acids without trivial names and the mono- or di-amides of tricarboxylic acids, *etc.*, are designated as carbamoyl derivatives of the acid named on the basis of the remaining carboxyl groups.

(This Rule is partly alternative to Rule C-431.1.)

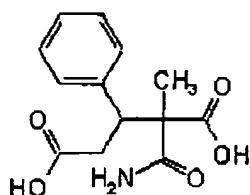
Examples to Rule C-431.4



6-Carbamoylhexanoic acid



6-(Phenylcarbamoyl)hexanoic acid



2-Carbamoyl-2-methyl-3-phenylglutaric acid

See Recommendations'93 R-5.7.1

Next:

Peroxy Acids [Rule C-441](#)

Imidic, Hydrazonic, and Hydroxamic Acids [Rule C-451](#)

Salts and Esters [Rule C-461](#), [Rule C-462](#), [Rule C-463](#), [Rule C-464](#)

Lactones, Lactides, Lactams, and Lactims [Rule C-471](#), [Rule C-472](#), [Rule C-473](#), [Rule C-474](#),
[Rule C-475](#)

Acyl Halides [Rule C-481](#)

Acid Anhydrides [Rule C-491](#)



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- Explore IUPAC and CAS Nomenclature tools, such as [Free IUPAC name generation](#) and professional [ACD/Name Software](#)
- Look up structures of trivial and trade names with [ACD/Dictionary](#)
- [More resources](#) for educators and students